ALEKSANDROV, 2.17. USSR/Medicine - Oncology

FD-2431

Card 1/1

Pub 17-14/21.

Author

: Aleksandrov, S. N.

Title

: Effect of irradiation of the brain on the develorment of induced skin

cancer in mice

Periodical: Byul. eksp. biol. i med. 39, 52-56, Jan 1955

Abstract

: It has long been known that so-called spontaneous cancers arise from disturbed functional conditions of the nervous system. The author investigated the possible cancer-stopping effect of heavy doses of irradiation of the heads of mice with artificially induced cancers. Under a 600 roentgen dose per session, the mice died of septicopyemia between the 6th and 7th session and therefore it was possible to examine the cancers only to the 110th day of the experiment, i.e. to the moment of death. The cancers up to that time appeared in 46% of the irradiated mice against 30% of the controls. Therefore it would seem that greatly increased dosage of irradiation has the inverse effect of the lower dosage. No references. Graphs.

Institution: Experimental Cancer Department (Kondrat'yeva, T. M.) Central Scientific Research Roentgeno-Radiological Institute (Director, Prof M. N.

Pobedinskiy) Ministry of Health USSR, Leningrad

Submitted : April 8, 1954

HLEKSANDROV,

USSR/ Medicine - Physiology

Card 1/1

Pub. 22 - 45/46

Authors

Aleksandrov, S. N.

Title

Peculiarities of irradiation trauma in tonic tissues of a frog

Periodical :

Dok. AN SSSR 103/1, 169-171, Jul 1, 1955

Abstract

The causes resulting in the peculiarities of the injury irradiation in the tonic tissues of a frog are explained. Three USSR references (1938-1953).

Illustrations.

Institution: Central Sc. Res. Roentgen Radiological Inst.

Presented by: Academician N. N. Anichkov, March 5, 1955

Characteristics of the response of tonic fibers to mechanical injuries.
Biul. eksp. biol. i med. 40 no.11:65-69 N '55. (MIRA 9:1)

1. Iz TSentral'nogo nauchno-issledovatel'skogo rentgenoradiologicheskogo instituta (dir-prof. M.N. Pobedinskiy) Ministerstva zdravockhraneniya SSSR, Leningrad.

(MUSCLES. physiology,
eff. of mechanical inj. on tonic fibers in frog. musc.)

USSR/General Biology - General Histology.

В

Abs Jour

: Ref Zhur Biol., No 6, 1958, 23568

Author

Aleksandrov, S.N., Presnov, M.A.

Inst

Title

: The Action of Depolymerase of Desoxyribonucleic Acid

on Live and Killed Cells in Tissue Cultures.

Orig Pub

: V sb.: Vopr. radiobiologii, L., 1956, 338-346

Abstract

: Experiments were conducted on cultures of spontaneous adenocarcinoma of mammary gland of mice and fibroblasts of the heart of chicken embryo. Even a lengthy stay (15 hours) of the culture in Ringer solution (I), which contained 40 /ml of DRA depolymerose (II) does not lead to a change of the intensity of staining of nuclei according to Felgen. In incubation of explants in borate or veronal buffer, which contained II, a weakening of the staining ability of nuclei was noted. The effect increases with increase of II concentration and lengthening

Card 1/3

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USSR/General Biology - General Histology.

В

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Abs Jour : Ref Zhur Biol., No 6, 1959, 23568

of the incubation period. By means of neutral red, it was descovered that a buffer medium irreversibly injures the cells. In action of II on cultures which were killed by heating, hydrochloric acid, alcohol, or "suza" fixative, weakening of staining according to Felgen was noted independently of whether the cells were in the buffer solution or in I. Irradiated cultures (irradiation source- radon) were placed for 3 hours into a buffer solution with II (experimental group) or without enzyme (control). A certain weakening of staining of nuclei in the experiment was noted, which did not exceed that in non-irradiated cultures which were incubated in the buffer solution with II. In incubation with I, these differences between the experiment and the control were absent. The authors showed that the polymeric DNA in solution under influence of irradiation does not lose the ability to depolymerize under effect of II. The latter induces a weakening of

Card 2/3

USSR/General Biology - General Histology.

В

Abs Jour : Ref Zhur Biol., No 6, 1959, 23568

the staining ability of nuclei according to Felgen in cells killed by irradiation and subjected to autolysis of cultures. The authors feel that in irradiation, in differentiation from other injuring agents, nucleoproteide is isolated in which DNA and protein are securely bound. This bond is disturbed only in autolysis. -- I.M. Shapiro

Card 3/3

- 10 -

ALEKSANDROV, S.N.

Zenker's degeneration as a reaction to local irreversible injury. Biul. eksp. biol. i med. 41 no.1:62-66 Ja. '56 (MLRA 9:5)

1. Iz otdela eksperimental'noy terapii (zav.-kandidat meditsinskikh nauk T.M. Kondratyeva) TSentral'nogo nauchn-issledovatel'skogo rentgeno-radiologicheskogo instituta (dir.-prof. M.N. Pobedinskiy) Leningrad. Predstavleno deystvitel'nym chlenom AMN SSSR D.N. Nasonovym.

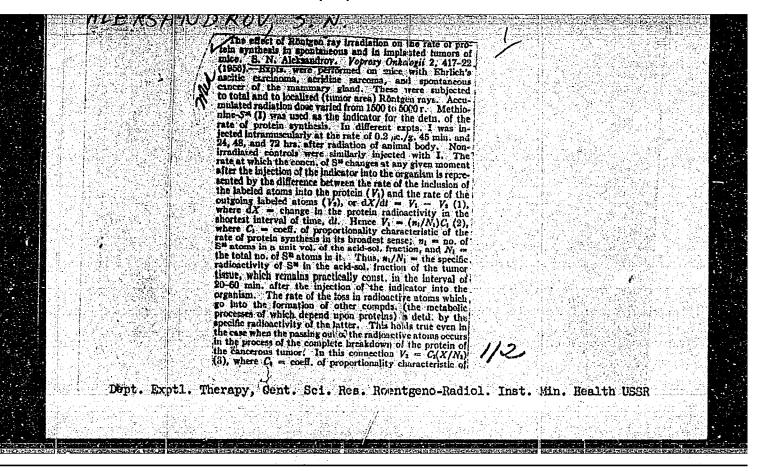
(WOUNDS AND INJURIES, exper., local irreversible inj. of musc. fibers causing Zenker's necrosis in frog.)
(NECROSIS

Zenker's necrosis of musc. caused by irreversible local inj. in frog)
(MUSCLES, dis. same)

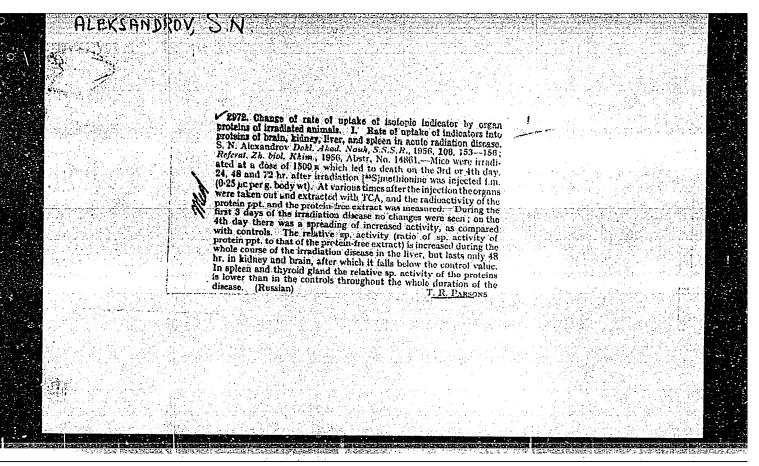
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ALEKSANDROV, S.N.; GALKOVSKAYA, K.F.; ZIL'BERG, Yu.G.

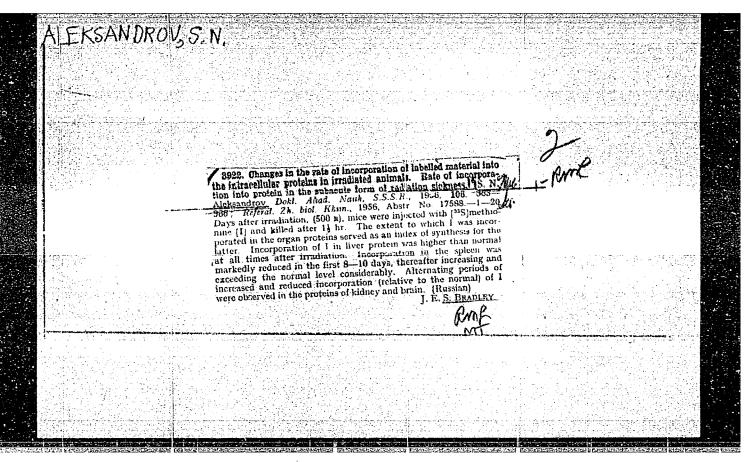
Comparison of the billogical action of roentgen irradiation and that of irradiation with radioactive cobalt. Med.rad. 1 no.2:80-87 Mr.Ap '56. (MIRA 9:9)

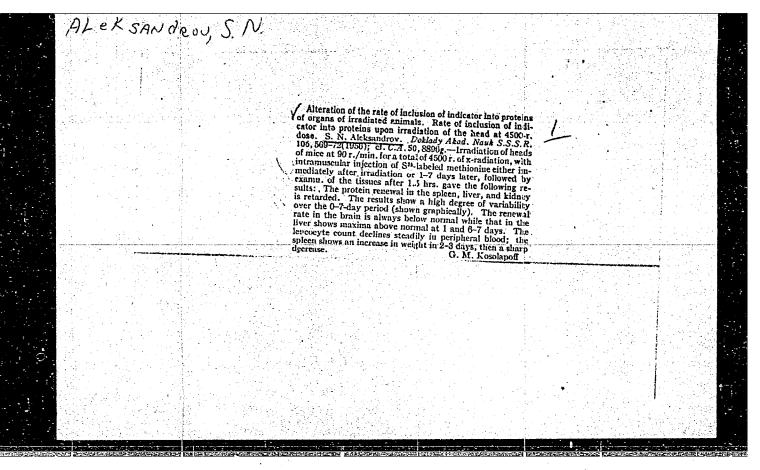
1. Iz laboratorii eksperimental'noy morfologii (zav. - prof. G.S. Strelin) Nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta (dir.-prof. M.N.Pobedinskiy) Ministerstva zdravookhraneniya SSSR. ((COMAIN, radioactive, eff. on blood picture, comparison with x-rays (Rus)) (ROENTOKN RAYS, effects, on blood picture, comparison with radiocobalt (Rus)) (BLOOD, effect of radiations on, radiocobalt & x-rays, comparison (Rus))
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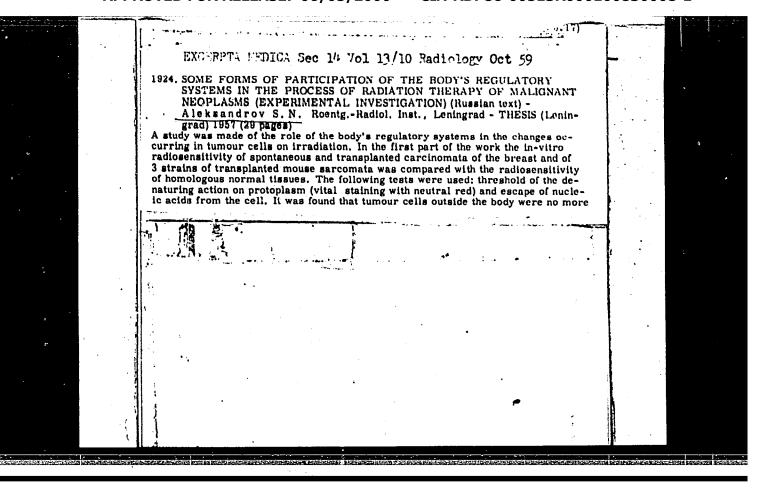
S.N. ALEKSANOKOV	
the rate of loss of labeled atoms, X/N_0 — the ratio of the space, of the sabeled atoms (X) to the conen, of the total S in the protein. On substituting V_1 and V_2 in (1) , dX/dt $C_1(n_1/N) - C_2(X/N_1)$ (4) in which C_1 and C_2 are unknown in order to det. C_1 in $(4)X$ is let approach 0 and in that equ	
tion integrated to $X = C_1(n_1/N_1)!$ (5), in which the integration const. is 0, since $t = 0$ and $X = 0$. Thus, (5) represent a straight line. The magnitude of the specific radioactive of the tumor proteins which defines the rate of the process of synthesis was detd. In the midisction of the straight line, the midisction of the indicator into the synthesis. The rate of protein synthesis was reduced. Riongen ray radiation. The degree of reduction in the radio of protein synthesis depends upon the radiation dose, the chapter of tumor, and the sensitivity of the tumor cells	its
radiation. D. S. Levine	







ALEKSARDROV, S. N., D.c Brolog Sci-(alss) "The role of the regulatory systems of the organism in the X-ray therapy of malignant neoformations." (Experimental research) Leningrad, 1957, 29 pp, (Min Pub Health USSR. Central Sci-Res Inst of X-ray radio-logy), 160 copies. (KL, No 40, 1957, p.91)



"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100830008-1

1324 sensitive than the normal elements of identical tissue groups and that enhanced sensitivity only occurred in vivo. Conditions determining the various radiosensitivity of tumour cells in vitro were studied on the ascitic and subcutaneous variants of the Ehrlich tumour and the mouse acridine sarcoma. Inhibition of tumour growth and of protein synthesis in the tumour (S35-labelled methionine) served as tests. It was shown that the different reaction of different tumours to irradiation depended on specific properties of tumour cells and that the sensitivity of a given tumour in vitro was determined by the physiological condition of the cells at the moment of irradiation and the environmental conditions following irradiation. The second part of the work is devoted to a study of the role of the regulatory, protective-adaptive systems of the organism in realizing the direct and the indirect general action of radiation energy. Cells of the ascitic variant proved to be less damaged by direct action than cells of the s.c. variant; this is connected with the presence of innervation in the latter since tumours of a dencryated limb are more radio-resistant. In addition, it was found that anaesthesia reduced the effect of direct tumour irradiation and that this depended solely on inhibition of central nervous system function and not on any other experimental conditions. The effect of direct radiation energy was also diminished on bilateral adrenalectomy. The anti-tumour effect of radiation is thus realized with the participation of neurotropic action on the tumour which depends on the state of the nervous system and the humoral background. It was shown that the antiblastomatous effect of the in-direct general action of irradiation was likewise connected with the state of the nervous system, chiefly the sympathetic nervous system, participating in protective-adaptive reactions. The intensity of these reactions was also determined by the constitutional properties of the organism and the nature of the irradiation. Comparison of the roles of direct and indirect effect on the tumour revealed that the former is of predominant significance but that both are, in vivo, interconnected. Analysis of all the experimental and extensive bibliographic material showed that the protective-adaptive mechanisms of the body exert counter-directional effects on tumour and normal cells thus determining the enhanced sensitivity or the former Konopley - Moscow (S)

USSR / General Problems of Pathology. Tumors. Nervous USystem.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102560.

Author : Aleksandrov, S. N.

Inst : Not given.

Title : The Lowering of the Radiosensitivity of Denervated

Tumor Elements.

Orig Pub: Neoplasma, 1957, 4, No 2, 137-145.

Abstract: 0.2 ml of ascitic fluid (AF) of ascitic carcinoma of Ehrlich was inocculated to each mouse intraperitoneally or into the hip muscles. In proportion to the growth of the tumor, the animals were subjected to general Roentgen irradiation under 190 kv, 15 ma, 66 4/min, total 1500-5000 r; after 45 min.-72 hrs 0.2 m curie each per 1 g of weight of

Card 1/3

60

USSR / General Problems of Pathology, Tumors. Nervous USystem.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102560.

Abstract: marked methionine was introduced to them and they were sacrificed after 45 min. A slowing down of the protein synthesis in intraperitoneal inocculation was noted from 5000 r, in intramuscular - from 2500 r, i.e., solid tumors were characterized by higher radiosensitivity (R) than the cells of AF. In irradiation of cells of one or the other tumor in vitro a difference in R were not noted. 0.3 ml of AF was introduced to mice in the hind extremity; after 13-15 days the extremity was denervated (dissection of sciatic nerve and V-VII lumbar nerve); hour after surgery general irradiation with 2500 r was performed, and the animals were killed at once. A suspension of the cells of denervated and undenervated tumors was injected into mice. In

Card 2/3

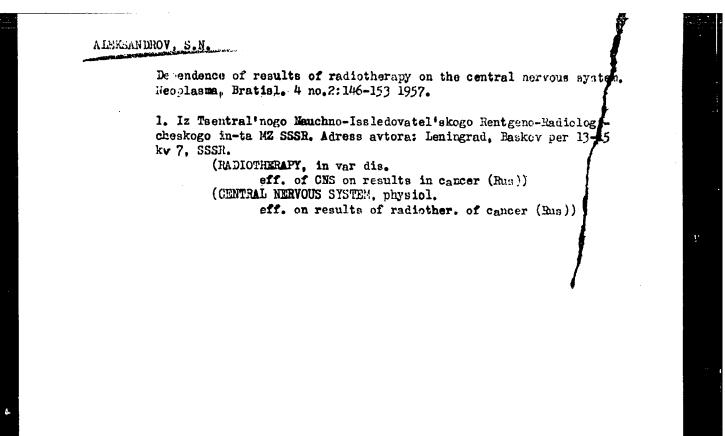
USSR / General Problems of Pathology. Tumors. Nervous USystem.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102560.

Abstract: denervation, growth of the tumor was noted on the 12th, without denervation on the 18th day. In other experiments, the extremity was denervated after irradiation with 2500 r. A difference in tumor growth was not noted. Consequently, the change of R after denervation takes place not by the reflex path, but in connection with rebuilding of metabolism, induced by denervation. Apparently the decrease of R of ascitic elements deprived of neurotrophic influences is connected with these changes of metabolism. -- K. P. Markuze.

Card 3/3

61



USSR/Human and Animal Physiology. Action of Physical Agents.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37008.

: Aleksandrov, S.N., Galkovskaya, K.T. Author

Inst Title

: On the Relation Between the General Resistance and

Resistance to Radiation in Animals.

Orig Pub: Zh. obshch. biologii,1957, 18, No 1, 47-52.

Abstract: Radioresistance of mice of the strain C57 (black)

and strain A were compared following a single exposure to x-rays. Mice of strain C57 were more

resistant in a wide range of radiation doses.

In all the variants of the experiment (administration of strychinine, inspiration of diethylether, grafting of Ehrlich's ascitic cancer) following removal of the adrenals the differences in the radioresistance be-

: 1/2 Card

132

ALEKSANDROV, S.N.

"On the Relationship of General Resistance and Radioresistance in Animals," by S. N. Aleksandrov and K. F. Galkovskaya, Laboratory of Experimental Therapy and Experimental Morphology, Scientific Research Roentgeno-Radiological Institute, Ministry of Health USSR, Zhurnal Obshchey Biologii, Vol 28, No 1, Jan/Feb 57, pp 47-52

A detailed comparison of the radioresistance of mice of two different strains (S₅₇ and A) to identical X-irradiation was made. This was done to clarify the nature of the natural protective mechanisms which provide the biological resistance of organisms to the action of ionizing radiation.

Mice of the S57 strain have been found to be more resistant to the action of a variety of harmful agents, surgical trauma, etc.

The greater radioresistance of the S57 mice was due to their high general resistance and was dependent chiefly on the activity of the adrenal system. Extirpation of the adrenals in mice of both strains brought about a leveling of any difference in their resistance to radiation. (U)

54M.1374

AUTHOR

ALEKSANDROV, S.N.

PA - 2655

TITLE

On the dependence of the X-ray therapeutic effect upon the general resistance of animals carrying malignant neoplasms. (Ozavisimosti rentgenoterapevticheskogo effekta ot obshehey ustoychivosti zhivotnykh-mositeley zlokachestvennykh

movoobrazovsssiy. Russiam)

PERIODICAL

Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 1,

pp 90 - 93 (U.S.S.R.)

Received 5/1957

Reviewed 6/1957

ABSTRACT

Formerly it was shown that mice of two different genetical lines (black mice $C_{r,\eta}$ and A) differ considerably with respect to their power of resistance against different reactions (ionizing radiations, strychnine, diethyl ether, chirurgical traumata, etc.). These differences exist also in the case of animals with EHRLICH carcinoma. Therefore the author investigates the dependence of the effect produced by radiation on the growth on the general power of resistance of the animals inflicted

with growth.

The excitation of growths by imjection of ascites into femoral muscles of the mice of group C., and A is described. These growths increased considerably and were then subjected to a local X-ray irradiation. Two days after irradiation the mice were killed,

Card 1/2

the growths emptied and the preparation obtained was earefully

On the dependence of the X-ray therapeutic effect upon the PA - 2655 general resistance of animals carrying malignant neoplasms.

investigated. The effect of irradiation on the growthdepends upon the general power of resistance and especiallyon the power of radiation resistance of the animals inflicted with new growths. The influence of the protective reactions of the organism exercised on the occasion of radiation is inverse in the case of mormal and in the case of growth tissues. (4 ill.)

ASSOCIATION

Central Roentgenological-Radiological Scientific Research Institute Leningrad

PRESENTED BY L.A. ORBELI, Member of the Academy

SUBMITTED AVAILABLE 17.10.1956

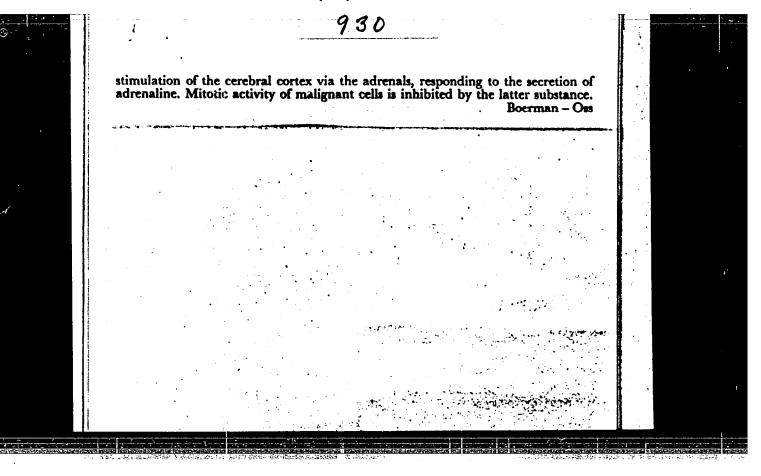
Library of Congress

Card 2/2

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APPROVED FOR RELEASE: 06/05/2000

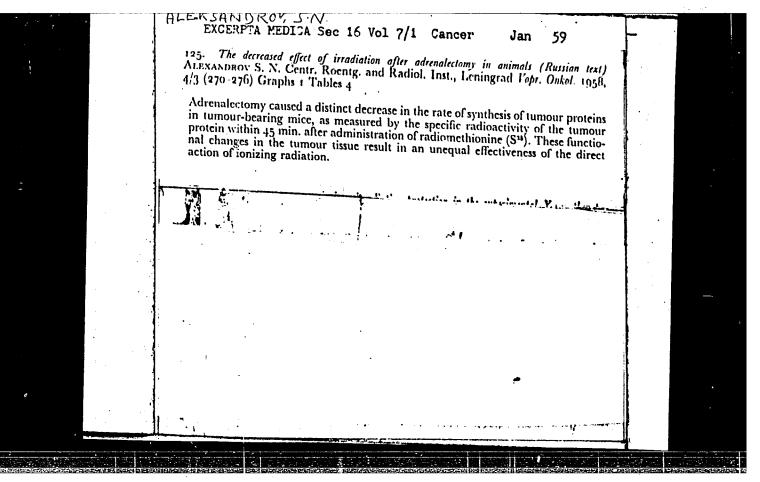
	930. The neurohormonal mechanism of an indirect effect of radiation upon tumour cells (Russian text) Alexandrov S. N. Doklady Akad. Nauk SSSR 1957, 113/2 (311-314) Tables 6 A description is given of experiments performed in mice with a view to analysing the	
	A description is given of experiments performed in mice with a view to analysing the mechanism of the indirect influence of medical ionization of tumour cells, in particular of those occurring in the brain. Irradiation of the brain apparently stimulates the higher departments of the sympathetic nervous system which gives rise to reflex	
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1		



ALEKSANDROV, S.N.; GALKOVSKAYA, K.F.; MATVEYEV, O.G.; PETROV, V.A.

Biological effect of external beta radiations. Med.rad. 3 no.4:
6-8 Jl-Ag '58. (MIRA 12:3)

1. Iz TSentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta Ministerstva zdravookhraneniya SSSR.
(STEORTIUM, radioactive,
eff. in white wice, external application (Rus))



ALEKSANDROV, Samuil Naumovich

[Regulatory systems of the body during radiotherapy for tumors] Reguliatornye sistemy organizma v protesses luchevoi terapii opukholei. Kiev. Gosmedizdat USSR, 1959. 194 p.

(MIRA 13:9)

(TUMORS)

(RADIOTHERAPY)

(ALEKSANDROV, S.N.; BUKHMAN, M.P.

Spectrographic study of the effect of radiant energy on the ultraviolet absorption spectra of crystalline proteins and amino acids. Biofizika 4 no. 6:720-725 '59. (MIRA 14:4)

1. TSentral'nyy nauchno-issledovatel'skiy rentgeno-radiologicheskiy institut Ministerstva zdravookhraneniya SSSR, Leningrad. (RADIATION--PHYSIOLOGICAL EFFECT) (PROTEINS--SPECTRA) (AMINO ACIDS--SPECTRA)

ALEKSANDROV, S.N.; GALKOVSKAYA, K.F.

On changes in the radioresistance of the irradiated organism. Med. rad. 4 no.11:15-19 N 159. (MIRA 13:2)

1. Iz TSentral'nogo nauchno-iseledovatel'skogo instituta meditsinskoy radiologii Ministerstva zdravookhraneniya SSSR eksperimental'no-rakovogo otdele (zaveduyushchiy S.N. Aleksandrov) i laboratorii eksperimental'noy morfologii (zaveduyushchiy - prof. G.S. Strelin).

(RADIATION EFFECTS experimental)

ALEKSANDROV, S.N.; GALKOVSKAYA, K.F.; LOZINA-LOZINSKIY, L.K.

Heat resistance of the isolated tissues and body of lake frogs found in hot spring waters at Zheleznovodsk. TSitologiia 2 no.4:442-447 Jl-Ag 160. (MIRA 13:9)

1. Otdel otdalennoy luchevoy patologii TSentral'nogo nauchnoissledovatel'skogo instituta meditsinskoy radiologii i Laboratoriya kletochnykh adaptatsiy Instituta tsitologii AN SSSR, Leningrad. (HEAT--PHYSIOLOGICAL EFFECT) (TISSUES)

ALEKSANDROV, S. N. (USSR)

"The biological characteristics of the tumouous cells as the basis of radiation therapy."

report submitted for the European Conference on Tumor Biology (VICC), Warsaw, Poland 22-27 May 1961

Aleksandrov, S. N.-Baskov per. 13/15 Kw. 7, Leningrad

ALEKSANDROV, S. N.; GALKOVSKAYA, K. F.

Sexual differences in radiosensitivity. Radiobiologiia 2 no.3: 401-405 '62. (MIRA 15:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii, Leningrad.

(GAMMA RAYS—PHYSIOLOGICAL EFFECT)
(SEX(BIOLOGY))

41675

S/020/62/146/005/010/011 B144/B186

27.2400

AUTHORS:

Aleksandrov, S. N., Galkovskaya, K. F.

TITLE:

Frequency of lymphosarcoma formation in mice exposed to

single and multiple irradiations

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 146, no. 5, 1962, 1189-1192

TEXT: Male and female mice were whole-body irradiated with Co60 in groups from 129 to 1035, either with a single dose of 800 r or with 4 doses of 200 r each at intervals of 7 or 30 days. The frequency of tumor formation was calculated from 2 formulas: 1) $K_2 = A/(N - N_1)$;

2) $K_3 = A_{m}^{\sim}/(N - N_1)C$, where A is the number of individuals afflicted with lymphosarcoma (LS) of the thymus, N is the number of mice irradiated, N₁ is the number of mice dying from irradiation effects within the latent period of LS formation, $\epsilon_{\rm m}$ is the mean duration of the latent period, and C is the mean life in the cancerogenic period. No LS were found in the controls. The sex of the irradiated mice had a distinct influence on the

Card 1/3

S/020/62/146/005/010/011 B144/B186

Frequency of lymphosarcoma...

Card 2/3

The male-to-female K_2 ratio is 3:1 after single LS formation frequency. increasing irradiation intervals; in females, they increased with 4×200 r and 7-day intervals as compared to the single exposure, but only K_3 This behavior of K, and K, continued to increase with 30-day intervals. proves that the variations in LS formation frequency cannot be due to the effect of different irradiation conditions on the animals! lifetime. The inconsistencies in the LS susceptibility of the two sexes are explained by the predominance of an indirect radiation effect on the gonades which inhibits the production of hormons. Since this effect decreases with increasing irradiation intervals, androgen inhibition becomes stronger in males and oestrogen stimulation of LS formation stronger in females. These results contradict the idea that females are throughout more susceptible to irradiation-induced LS formation than males. The duration of the latent period is independent of the LS formation frequency. is 1 table.

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100830008-1

S/020/62/146/005/010/011 B144/B166

Frequency of lymphosarcoma...

ASSOCIATION:

Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii (Central Scientific Research Institute of Medical

Radiology)

March 26, 1962, by N. N. Anichkov, Academician PRESENTED:

December 11, 1961 SUBMITTED:

S/020/63/149/001/022/023 B144/B186

AUTHORS:

Aleksandrov, S. N., Galkovekaya, K. F.

TITLE:

Frequency of leucoses induced by single and fractionated

irradiations

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 1, 1963, 194-197

TEXT: The interrelation between leucosis frequency and irradiation conditions was studied in mice which were Co irradiated with 800 r either in a single dose or in 4 doses of 200 r each at intervals of 7 or 30 days. Histological studies after natural death included: thymus, lungs, liver, kidneys, suprarenal glands, bone and bone marrow, spleen lymph nodes, kidneys, suprarenal glands, bone and bone marrow, spleen lymph nodes, vary, uterus, etc. The ratio between myeloid and lymphoid forms of ovary, uterus, etc. The ratio between myeloid and lymphoid forms of leucosis (86: 14) equalled that of radiation-induced leucosis in man. The frequency factors were calculated from equations published previously frequency factors were calculated from equations published previously (DAN, 146, no. 5 (1962)). The high leucosis rate found in male mice is (DAN, 146, no. 5 (1962)). The high leucosis rate found in males, which consistent with the predominant occurrence of myeloid forms in males, which is typical of radiation-induced leucoses in animals as well as in man. The percentage of lymphadenosis was similar in all groups with the exception of Card 1/3

S/020/63/149/001/022/023 B144/B186

Frequency of leucones induced by ...

females subjected to fractionated irradiation at 7-day intervals, where it increased to 35%. At 30-day intervals the leucosis rate increased sharply in both sexes, owing to an increase in myeloid forms. The two explanations offered are: a) The second and further irradiations affect the bone marrow in the state of myeloid hyperplasia, which is perhaps more susceptible to leucose-producing changes; b) these changes are caused at equal rates, but other disturbances, part of which inhibit the development from preleucotic to leucotic states, are less serious in irradiation at 30-day intervals so that the frequency of leucoses increases. Also a and b might be combined. Shortening of the latent period was observed in male mice only. These results show the danger of irradiations repeated at long intervals as regards malignant affections of the white blood corpuscles. There are 2 tables.

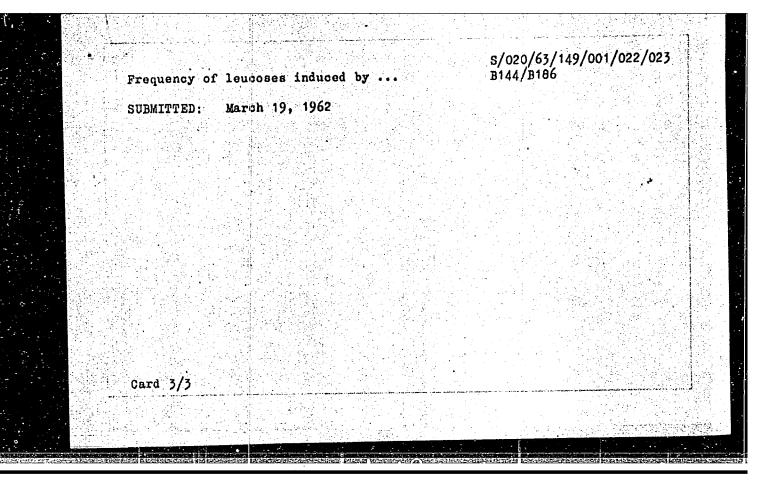
ASSOCIATION:

Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii Ministerstva zdravookhraneniya SSSR (Central Scientific Research Institute of Medical Radiology of the Ministry of Public Health USSR)

PRESENTED:

March 26, 1962, by N. N. Anichkov, Academician

Card 2/3



I. 10829-63 EWT(m)/BDS/ES(b)--AFFTC/ASD--RM/K ACCESSION NR: AP3000756 S/0020/63/150/003/0665/0667

AUTHOR: Aleksandrov, S. N.; Galkovskaya, K. F.

TITLE: Comparative evaluation of the protective effect of Beta-mercaptoethylamine hydrochloride during single and fractionated irradiation

SOURCE: AN SSSR. Doklady, v. 150, no. 3, 1963, 665-667

TOPIC TAGS: Beta-mercaptoethylamine hydrochloride, fractionated irradiation

ABSTRACT: This is a continuation of a previous study (Sborn. tez. dokl. na nauchn. konf. Tsentr. nauchno-issledovatel skiy inst. med. radiol. po probleme: Patogenez, klimika terapiya i profilaktika luchevoy bolezni, Leningrad, 1957, page 77) where the authors performed comparison analyses of the protective effect of Beta-mercaptoethylamine hydrochloride during a single and fractionated radiation of animals. In these earlier experiments the authors discovered that Beta-mercaptoethylamine hydrochloride reduces the death rate of animals twofold during single radiation effect. At the same time, this hydrochloride turned out to be not only ineffective during fractionated radiation, but it even increased the death rate of mice. The authors concluded that the hydrochloride preparation which they used in specified doses had a toxic effect when used repeatedly. This theory was

Card 1/2

L 10829-63

ACCESSION NR: AP3000756

tested in these experiments. Authors established that the introduction of Betamercaptoethylamine hydrochloride does not prolong the life of radiation-diseased mice in both the single and fractionated radiations. These results are in complete agreement with the results obtained by other authors. Orig. art. has: 2 tables.

ASSOCIATION: Tsentral'ny*y nauchno-issledovatel'skiy institut meditsinskoy radiologii (Central Scientific Research Institute for Medical Radiology)

SUEMITTED: 07Dec62

DATE ACQD: 21Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 002

OTHER: 003

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Card 2/2

ALEKSANDROV, S.N.; GALKOVSKAYA, K.F.

Reduction in the protective effectiveness of crysteamine during repeated exposure to radiation. Dokl. AN SSSR 152 no.1:215-217 S '63. (MIRA 16:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii. Predstavleno akademikom N.N.Anichkovym. (Ethanethiol) (Radiation--Protective agents)

Aleksandeov, S.N.

Pathogenesis of remote after ffects of irradiation. Radiobiologiia
5 no.1:61-67 '65. (MIRA 18:3)

1. TSentral'nyy nauchno-issledovatel'skiy rentgeno-r diologicheskiy institut Ministerstva zdravookhraneniya SSSR, Leningrad.

ALEKSANDROV, S.N.; KONONENKO, A.M.

Dynamics and kinetics of cell population of the intestinal epithelium. Biofizika 10 no.4:716-717 '65. (MIRA 18:8)

1. TSentral'nyy nauchno-issledovatel'skiy rentgeno-radiologicheskiy institut Ministerstva zdravookhraneniya SSSR, Leningrad.

ALEKSANDROV, Samuil Naumovich; ROZENTAL', Dora L'vovna; TROSHIN,
A.S., otv. red.

[Spreading of the lesion in somatic muscle fibers] Rasprostranenie povrezhdenia v somaticheskikh myshechnykh voloknakh. Moskva, Nauka, 1965. 125 p. (MIRA 19:1)

L-14148-66 EWT (m)
ACC NR: AP6001309

SOURCE CODE: UR/0248/65/000/009/0011/0013

4/

AUTHOR: Aleksandrov, S. N.

ORG: Central Scientific Research Institute of Roentgenology and Radiology, Ministry of Health SSSR, Leningrad (Tsentral'nyy nauchno-issledovatel'skiy rentgeno-radiologicheskiy institut Ministerstva zdravookhraneniya SSSR)

TITLE: Pathogenesis of the aftereffects of radiation

SOURCE: AMN SSSR. Vestnik, no. 9, 1965, 11-13

TOPIC TAGS: ionizing radiation, pathogenesis, radiation effect, radiation injury

ABSTRACT: Direct ionizing radiation sets in motion a chain reaction consisting of four links. The first or primary link is the irreplaceable loss of certain cells, permanent changes in irradiated cells, and hereditary changes in somatic cells. These changes, which may persist even after disappearance of the clinical symptoms of acute radiation sickness, directly or indirectly give rise to a second link--secondary changes of a compensatory nature (e.g., hyperplasia of bone marrow). The primary and secondary disorders activate a third link--qualitative and quantitative

UDC: 616-001.28-06-092

Card 1/2

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ALEKSANDROV, S.N.; EPSHTEYN, I.M.; SPESIVTSEVA, V.G.; KOROLEVA, O.F.; LIKHUVETSKAYA, L.L.

The 9th Congress of Roentgenologists of the German Democratic Republic held jointly with the Society of Biophysicists. Med. rad. 10 no.9:92-95 S 165. (MIRA 18:10)

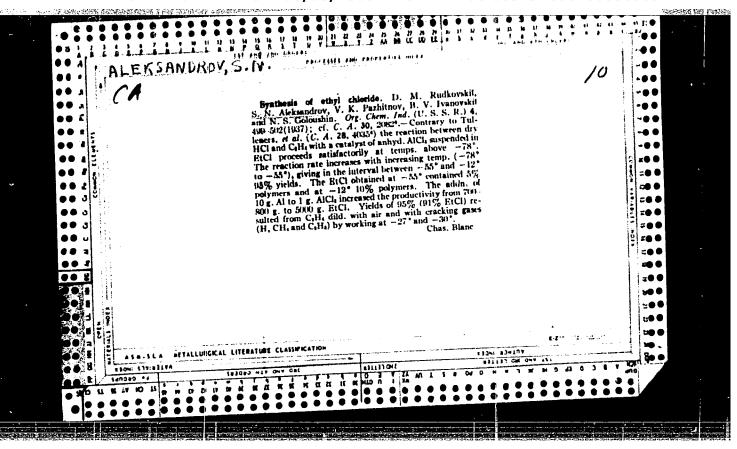
Treatment of experimental radiation sickness with bone marrow and antibiotics, Vop. onk. 11 no.10:77-81 '65. (MIRA 18:10)

1. Iz TSentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta Ministerstva zdravockhraneniya SSSR (direktor - Ye.I.Vorob'yev).

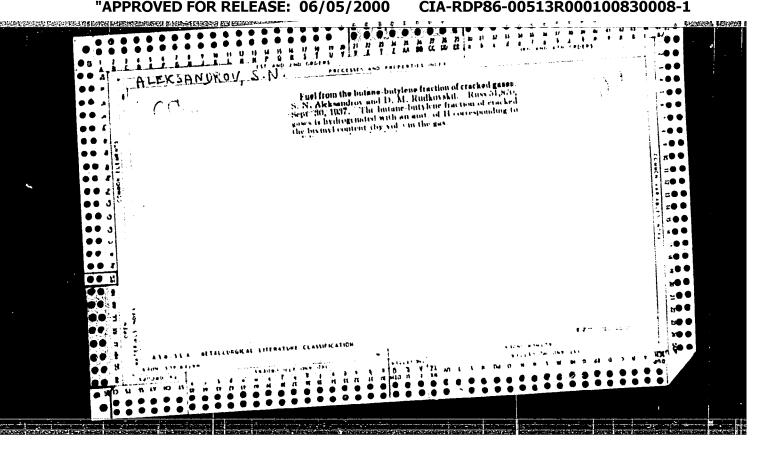
ALEKSANDROV, S.N.

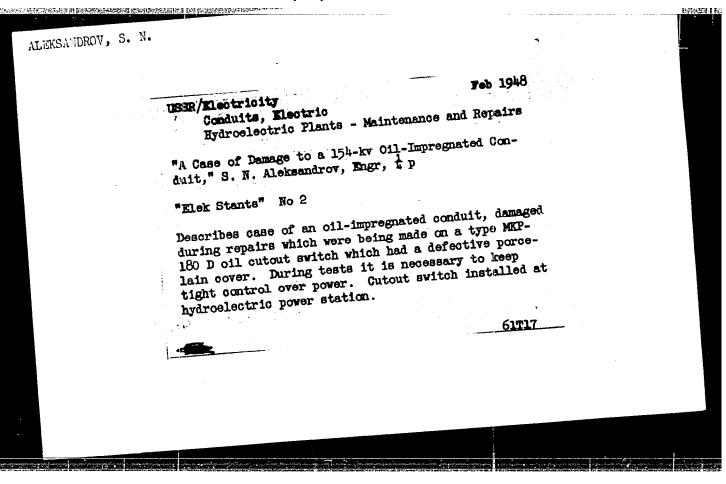
Pathogenesis of late results of radiation. Vest. AMN SSSR 20 no.9:11-13 '65. (MIRA 18:11)

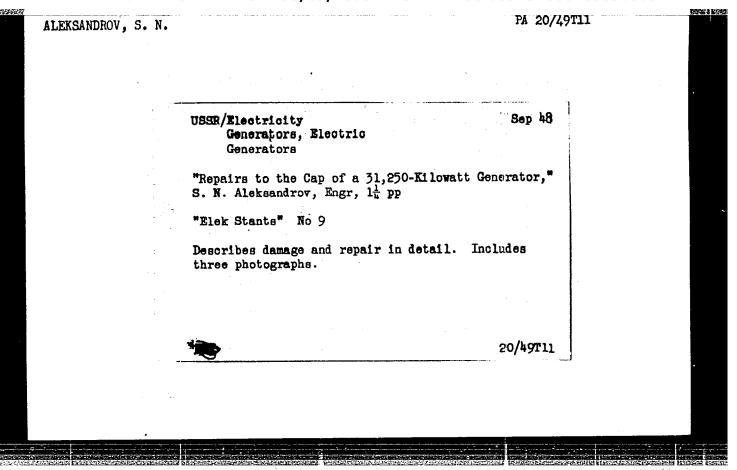
1. TSentral'nyy nauchno-issledovatel'skiy rentgenoradiologicheskiy institut Ministerstva zdravookhraneniya SSSR, Leningrad.



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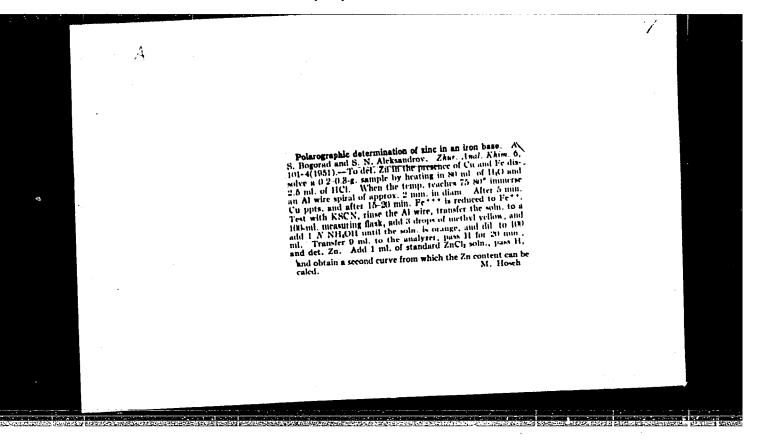






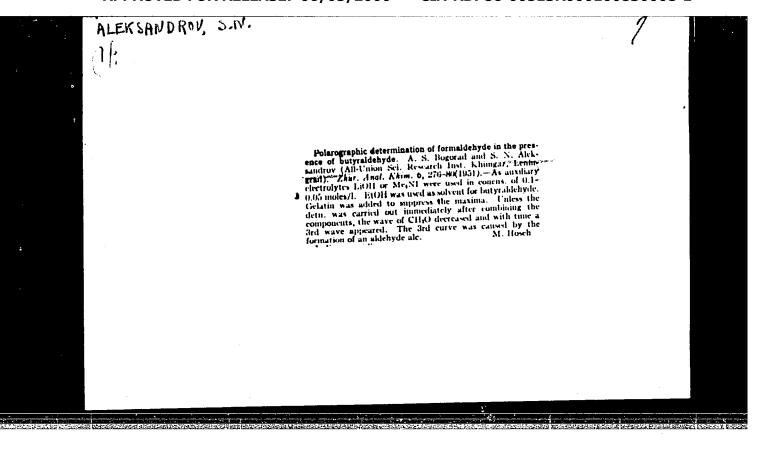
ALEKSANDROV, S. N.	(Engr)		
"Breakdown of a 30-	-thousand KVA Generator,	' Elek. Stan., No. 5, 194	9

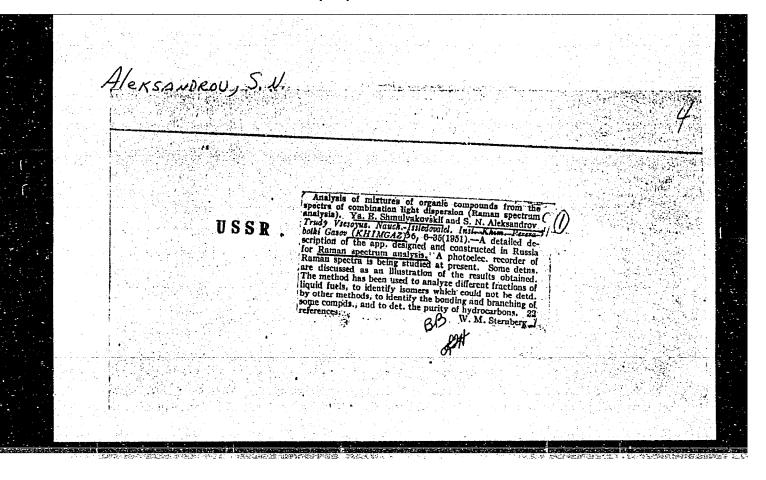
EKSANDROV		(En		73 T	nsulators		Megger !	' Elek.	Stam	No.	10,	1949
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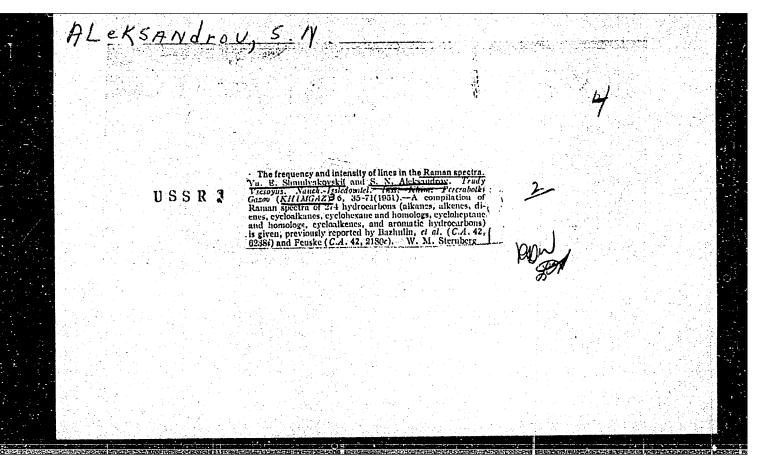


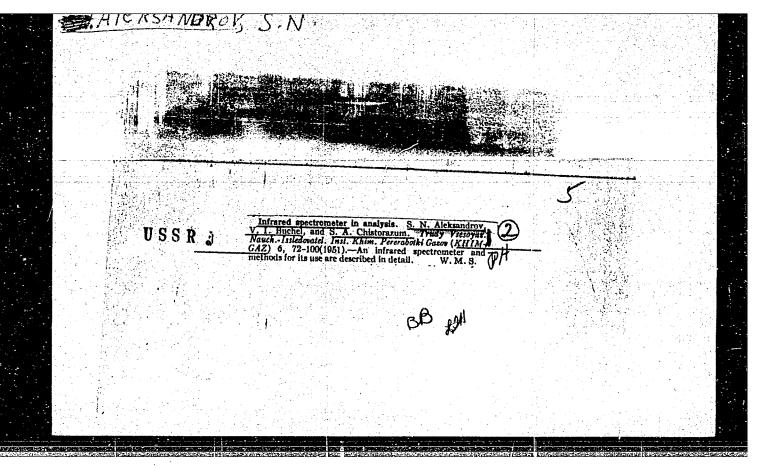
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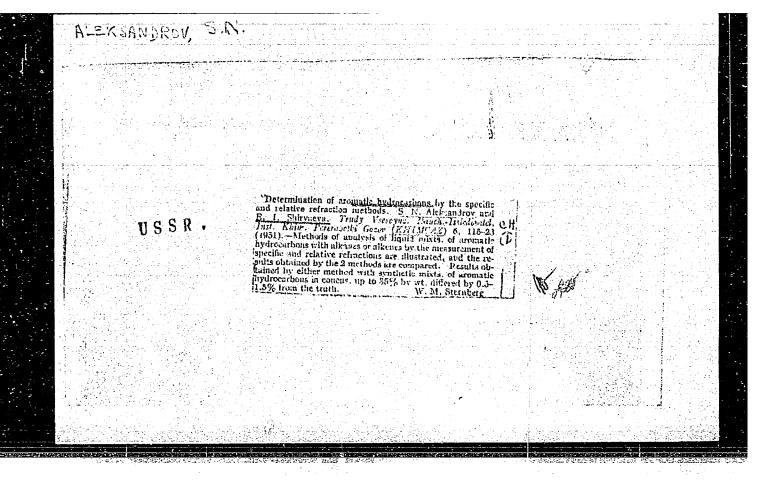




BOGORAD, A.S.; ALMKSANDROV, S.N.

Polarographic determination of sinc with iron as basis. Trudy
Inst. "Khimgas" no.6:109-114 '51. (MIRA 7:8)

(Polarograph and polarography) (Zinc)



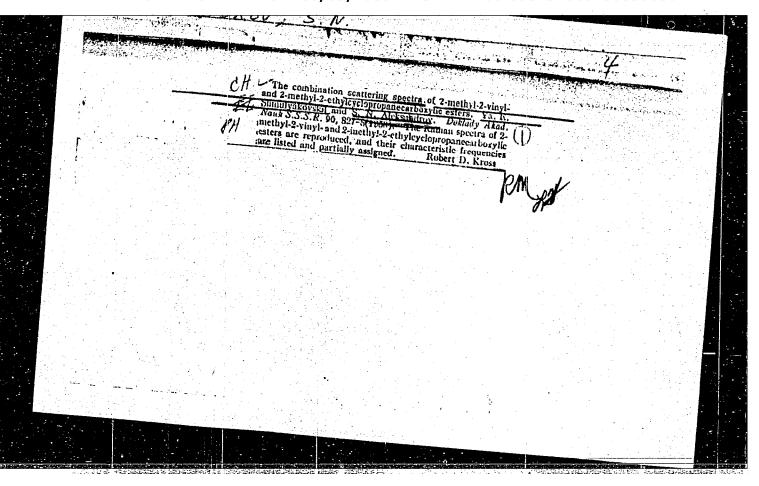
USSR/Chemistry - Liquid Fuels

USSR/Chemistry - Liquid Fuels

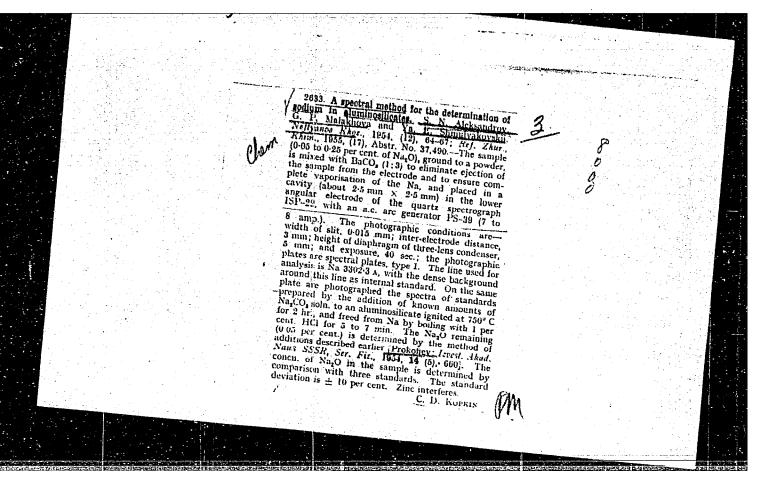
"The Raman Spectrum of 3, 4, 4-Trimethylpentene-2, Ta. E. Shmylyskovsky, C. N. Aleksandrov, Leningrad Sci Res Inst of Petroleum Conversion and Production of Synthetic Liquid Fuels

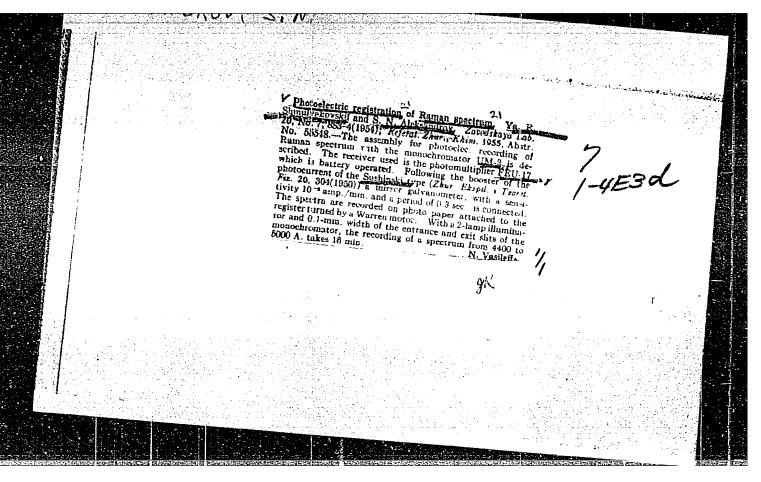
"Dok Ak Nauk SSSR" Vol LXXXII, No 6, pp 931-933

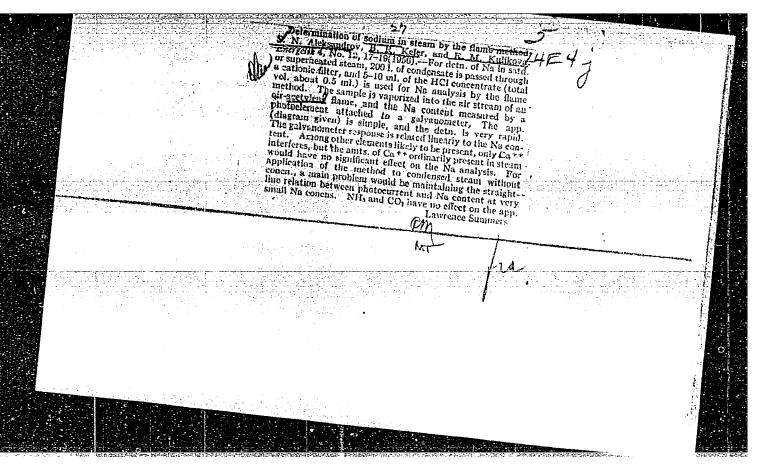
Data on Raman spectra of many alkenes are still absent from the literature. In this work the authors mesaure the Raman spectrum lines of 3, 4, 4-Timethylpentene-2, a product of hydrocarbon conversion and synthesis. Detailed information is given on the equipment, method used, and manner is given on the equipment whence 3, 4, 4-Trimethylpentene-2 was hydrogenated into 2, 2, 3-trimethylpentene-2 was hydrogenated into 2, 2, 3-trimethylpentene, whose spectrum was measured.

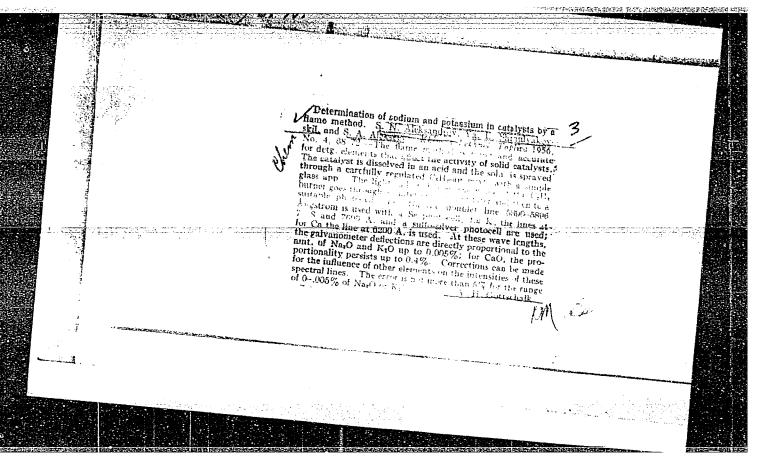


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THE TOHKSKERS N

USSR/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1238

Author: Aleksandrov, S. N., Shmulyakovskiy, Ya. E., and Malakhova, G. P.

Institution: None

Title: Spectral Determination of Iron and Magnesium in Aluminum Silicates

Original

Periodical: Khimiya i tekhnol. topliva, 1956, No 6, 55-57

Abstract: An analytical method has been developed for the concentration ranges 0.04-1% Fe₂0₃ and 0.1-1% MgO, using the pairs Fe 2585-Si 2532 and Mg 2776-Si 2532 R. The powdered samples are mixed with BaCO₃ in the ratio 1:3, the latter acting as arc stabilizer, and inserted in the channel of a carbon electrode 2.5 mm in diameter and 2.5 mm deep. The spectra are excited with a 7 amps; an electrode gap of 3 mm and exposure of 60 seconds are used. A medium type ISP-22 spectrograph with a 0.015 mm slit is used. In preparing the calibration graphs, a plot of S vs log c is made. The analytical error is 10%. Standards are prepared by adding Fe and Mg compounds to freshly washed

aluminum silicate, calcining, and grinding.

Card 1/1

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100830008-1 MOMODEOV, S.N.

USSR/Analysis of Inorganic Substances.

G-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19540.

Inst

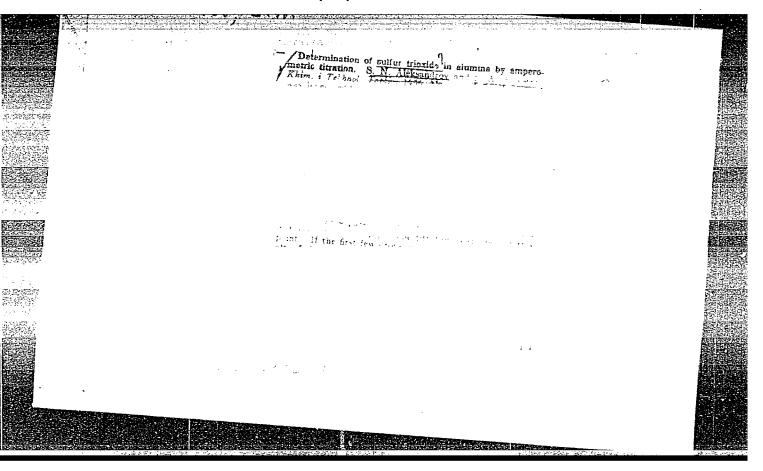
Ya. E. Shmulyakovskiy, S. N. Aleksandrov. Title Spectral Letermination of Calcium in Alumo-

Orig Pub: Lhimiya i Tekhnol. Topliva, 1956, No 10, 70 - 72.

Abstract: The sample is mixed with Baco3 in the ratio of 1:3, pulverized and stamped into carbon electrodes with bowls 2.5 mm deep and 2.5 mm in diameter. The spectrum is excited in a a.c. or

d.c. arc, the arc gap being 3 mm and the current being 18 a. The spectrum is photographed Card 1/2

- 20 -



AUTHORS:

Aleksandrov, S. N., Shmulyakovskiy, Ya. Ye. and

Alekseyev, S.A. (Len. N.I.I.)

An apparatus for the determination of aromatic hydrocarbons in petrol based on measurements of dielectric uglevodorodov v benzinakh metodom izmereniya dielektricheskoy pronitsayemosti).

PERIODICAL: "Khimiya i Tekhnologiya Topliva i Masel" (Chemistry and Technology of Fuels and Lubricants), 1957, No.2,

pp. 60 - 63 (U.S.S.R.)

A description of the apparatus (including electrical circuit) is given. A comparison of the results obtained by sulphonation and dielectric permeability obtained. There are 3 figures, 3 tables and 2 non-

Card 1/1

AUTHOR ALEKSANDROV, S.N., TITLE On the Neurohormonal Mechanism of an indirekt Effect of Radiation upon tumor cells. (O neyrogormonalnom mekhanizme nepryamogo deystviya ioniziruyushchey radiatsii na opukholevyye kletki - Russian) PERIODICAL Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 2, pp 311-314, Received 6/1957 ABSTRACT Although the importance of the influence of radiation energy in the therapeutic of malignant neoplasms is generally acknowledged, Reviewed 7/1957 its concrete forms are only insufficiently investigated. One of the most effective kinds is head irradiation. By means of this treatment it is possible to lower the susceptibility to experimental cancer. In a test ascitic liquid was brought into the abdominal cavity of mice. 6-8days later abdominal cavity was filled with tumor elements suspended in the liquid. The author pictured the effect of this radiation to himself by the mitotic activity of these elements. While being irradiated the animals were held so that only their heads were exposed to the rays. Several times the ascitic liquid was taken out sterilely in intervals after the irradiation and it was used in smear preparations for counting the cells that were in the state of mitosis. A general scheme of the mechanism of ionizing radiation on the tumor can be projected ba-Card 1/2 sed on the results: the irradiation of the brain leads to an ex-Control of the series to the series and the series of the

On the Neurohormonal Mechanism of an Indirect Effect of Raciation upon tumor cells.

citation of higher sections of the sympathetic nervous system. By this a reflex stimulation of the cerebral layer of the suprarenal capsules occurs, which reacts with adrenalin secretion. This hormone delays the mitotic activity of the tumor cells. A number of results concerning the tonus modification of the sympathetic ner-Vous system when applying ionizing radiation lead to the assumption that this effect can also occur in the case of other localizations of the radiation influence. (6 schedules, 7 citations from publi-

ASSOCIATION

Central Scientific Roentgen-Radiologic Research Institute,

PRESENTED BY SUBMITTED

ORBELI, L.A., Member of the Academy

AVAILABLE

Card 2/2

Library of Congress.

SOV/65-58-9-14/16 AUTHORS:

Aleksandrov, S. N; Shmulyakovskiy, Ya. E; Alekseyev,

TITLE:

The Spectral Method For Determining Vanadium and

Nickel in Petroleum Products. (Spektral'nyy metod

opredeleniya vanadiya i nikelya v nefteproduktakh) PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1953, Nr 9, pp 69 - 71 (DSSR)

ABSTRACT: This method consists in drying a slightly acid solution

of the ash of petroleum products on electrodes; the surface of the latter is covered with a polystyrene coating to prevent penetration into the pores of the electrodes (Ref.1). The spectrum of the dry residue is recorded on the spectrograph ISP-22. The samples of the petroleum products are prepared by separating the mineral part of the petroleum product containing metals, and by sulphonating the ash; the mineral part can be separated almost completely. The limiting contentrations of vanadium and nickel in the sample are standards and of the electrodes is described. The

electrodes are coated with polystyrene and three drops Card 1/2 of the sample solution placed on them (approximately

The Spectral Method for Determining Vanadium and Nickel in Petroleum Products.

0.07 ml). After drying of the electrodes the concentration of the sulphuric acid in the solution increases. At higher temperatures H₂SO₄ partly dissolves the polystant. V 3185.4 a (V₂ - 3.96 EV) for vanadium and analytical lines. The line Co3044,005a (V₂ - 4.07 EV, used during these definitions. Figs. 2 and 3 give the graphs, and results of test samples of petroleum prolutions are given in a Table. There are 3 Figures and

ASSOCIATION: LenNII

Vanadium--Determination
 Nickel--Determination
 Petroleum--Spectrographic analysis

Card 2/2

· AUTHOR:

Aleksandrov, S. N. and Skop, S. L. SOV/65-58-11-13/15

TITLE:

Dynamic Method for Determining the Specific Surface of Catalysts (Dinamicheskiy ekspress metod opredeleniya udel ncy poverkhnosti katalizatorov)

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr 11,

ABSTRACT:

The surface and the character of the pore structure of catalysts are important during the manufacture of the latter as these parameters determine the degree of catalytic activity, reflect changes occurring during processes, and indicate the degree of poisoning and regeneration of The specific surface of solid sorbents can be determined by changes during the physical adsorption of nitrogen, argon, benzene and other hydrocarbon gases at static conditions in vacuum plants at room Adscrption isotherms of the gas and vapour on the sorbent can be constructed and the specific surface calculated when defining the surface of porous and non-percus catalysts and sorbents by the adsorption method. The dynamic method of determination was described by Fricke (Ref. 4) and Davis (Ref. 5), but these authors give no comparison of their results and those obtained by

Card 1/3

Dynamic Method for Determining the Specific Surface of Catalysts

other methods. Investigations by Rubinshteyn and Afanas yev (Ref. 6) also Zettlemayer (Ref. 7) are menauthors and the dynamic method modified to measuring pressure of penzene. Data by D.P. Dobychin was used and PS (the relative pressure of benzene

vapours) taken to equal 0.205 for aluminium oxide, 0.222 for aluminium silicates and 0.238 for silica BET method on a vacuum plant. The design of the apparatus (see figure) was similar to that described by the Rubinshteyn (Ref.6). Parallel experiments were carried parative results of measurement of the specific surface the Brunauer_Emmet_Teller method. Differences in the tells sufficiently accurate for specific surfaces of measurement of the specific surface results obtained did not exceed log. The method appears 20 mg/g and larger surfaces, and it can be used under

Card 2/3

Dynamic Method for Determining the Specific Surface of Catalysts

laboratory as well as under industrial conditions. There are 2 Tables, 1 Figure and 7 References: 4 Soviet, 1

ASSOCIATION: Lennii

Card 3/3

. AUTHORS: Shmilyakovskiy, Ya.E. and Aleksandrov, S.N. SOV/170-59-5-13/20 TITLE:

Flame Photometer PF-1 and the second s (Plamennoy fotometr PF-1) PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1959, Nr 3, pp 92 - 96 (USSR)

ABSTRACT:

Although many foreign firms manufacture flame photometers Ref. 1 to 6 / the Soviet optical industry has not as yet started to produce them. Therefore the authors devised and manufactured a flame photometer which is described and illustrated in the article. In this photometer, named PF-1, the acetylene-air flame is used for spectrum excitation of alkali and alkali earth elements, such as sodium, potassium, lithium, and calcium. The optical part of the photometer consists of two symmetric channels including diaphragms. lenses, thermal filters, interference color filters, and photocells. The emission of the flame is directed to an . interference color filter which singles out the proper band in the spectrum and then to the surface of a photocell, which results in arising of electromotive force. The device is provided with four interference color filters for determination of the 4 above-mentioned elements. The emf of the pho-

tocell is measured with a mirror galvanometer of the GPZ-2 type. Card 1/2 The electric circuit of the photometer is so devised (Figure 2)

·Flame Photometer PF-1

SOV/170-59-3-13/20.

that it is possible to carry out measurements by two methods: 1. Measurement by direct readings, and 2. Inner standard method. In using either of these methods a calibrating graph is drawn in which the concentration of an element is plotted versus the readings of the scale of the galvanometer or the potentiometer. The graph is linear since the magnitude of the electromotive force generated is proportional to the amount of element being determined. Then, in actual measurements, the concentration is determined by using these graphs. In case of necessity it is possible to photograph flame spectrum with a spectrograph of the ISP-51 type. The authors recommend to set up serial production of the flame photometers by the optical

There are: 1 schematic diagram, 1 circuit diagram, 1 graph, 1 table, and 11 references, 5 of which are Soviet, 2 German, 3 English, and 1 French.

ASSOCIATION:

Institut neftekhimicheskikh protsessov (Institute of Oil-Chemical Processes), Leningrad

Card 2/2

PHASE I BOOK EXPLOITATION SOV/5435

Kisclev, P. N., Professor, G. A. Gusterin, and A. I. Strashinin, Eds.

Voprosy radiohiologii. t. III: Shornik trudov, posvyashchennyy Goletiyu se days rochdeniya Professora M. N. Pobedinskop (Problems in Raddation Biology. Michail) Mikolayevich) Pobedinskiy [Dector of Nedicine]) Leningrad.

Mikhail) Mikolayevich) Pobedinskiy [Dector of Nedicine]) Leningrad.

Teentr. nisal. in-t med. radiologii M-va zdravookhrananiya SSSR, 1960.

Tech. Ed.: P. S. Pelesimk.

PURROGE: This collection of articles is intended for radiobiologists.

COVERAGE: The book contains 19 articles dealing with pathogenesis, prophylaxis, of the biologial effects of radiation carried out by workers of the Central Edging of the Ministry of Public Research Institute for Medical Radiology of the Ministry of Public radiologii M. [Teentral by y nauchno-isəladoraten' sky institute delistinskop Card 1/10

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	No personalities are mentioned. References accompany almost all of TABLE OF CONTENTS:	the articles.	į	
	Foreword		Ţ	
,	Gusterin, G. A., and A. I. Strashinin. Professor Mikhail Nikolayevich Pobedinskiy (Commemorating his Sixtieth Birthday)	. 3	1	•
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	Lebedinskiy, A. V. [Member, Academy of Medical Sciences USSR], N. I. Arlashchenko, and V. M. Mastryukova. On the Mechanism of Trophic			
	Zedzenidze a A Iv.	n		
S LONG A PAGE	Zedgenidze, G. A., [Member, Academy of Medical Sciences USSR], Ye. A. Zherbin, K. V. Ivanov, and P. R. Vaynshtayn. Hormonal Activity of the Corticosterone Acetate on the Disease			
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1	Alekseyeva, G. H. Reaction of an Irradiated Organism to the Introduction of Gangliolytic Preparations [gangliolitiki]		•		
	gangiloitiki				
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!	Disturbances in the Alimentary Canal During Acute and Subacute Forms of Experimental Radiation Sickness				
1	Forms of Experimental Radiation Sickness			4	
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	Aleksandrov, S. N. Some Methods of Approach to the Study of Early Stages of Radiation Sequelne	. 21	•	į	
	Stages of Radiation Sequelne				
		104			
	Manoylov, S. Ye. Respiration of Tissue and Sensitivity to Radiation	i .		1	
	Kachur, T. A. B. v. s.	1111			
	Kachur, L. A., P. N. Kiselev, and A. N. Shutko. Effect of Ionizing	1		.	
	Radiation on the Water-Exchange Process Between the Blood and the Extravascular Liquids in the Organism			.	
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ALEKSANDROV, S. N., mashinist kombayna, gornyy tekhnik

Better use of cutter-loaders. Ugol' Ukr. 7 no.4:32 Ap '63.

(MIRA 16:4)

1. Shakhta No. 4/5 "Mikitovka" Tresta predpriyatiy ugol'noy promyshlennosti Gordovskogo rayona.

(Coal mining machinery)

OLEVSKIY, Viktor Aleksandrovich, kand.tekhn.nauk; ALEKSANDROV, S.P., prof., retsenzent; TROITSKIY, A.V., inzh., retsenzent; ALEKSANDROV, S.P., prof., otv.red.; YEZDOKOVA, M.L., red. izd-va; ISLENT'YEVA, P.G., tekhn.red.; PROZOROVSKAYA, V.L., tekhn.red.

[Design and calculation of mechanical classifiers and hydrocyclones] Konstruktsii i raschet mekhanicheskikh klassifikatorov i gidrotsiklonov. Moskva, Gos.nauchno-tekhn.izd-volit-ry po gornomu delu, 1960. 314 p. (MIRA 13:7) (Separators (Machines))

ALEXSAIDROV, S. V.

Watch Industry

Automatic selection of inner boxes on the labeling machine,
Der. i lesokhim. prom. 2 No. 2, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

VANCHENKO, Petr Demidovich; ALEKSANDROV. S.V., red.; VOLOKHONSKAYA, L.V., red.izd-ve; KUZNETSOVA, A.I., tekhn.red.

[Equipment for match manufacture; its installation, repair and maintenance] Oborudovanie spichechnogo proizvodatva, ego remont i montazh. Moskva, Goslesbumizdat, 1960. 207 p.

(Match industry--Equipment and supplies) (MIRA 13:12)

**

ALEKSANDROV, S. V.

32488. O kontrole izolyatsii tstyrevykh izolyatorov mego metrom. (S primech. red.)
Elektr. stantsii, 1949. No. 10, s. 39-40.

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

ALEKSANDROV, S.V., elektromekhanik

How we seal the lock of switch interleckers. Avtom., telem. i sviaz' 2 no.11:25 N '58. (MIRA 11:12)

l. Vspol'inskaya distantsiya signalisatsii i svyazi Severnoy deregi. (Railreads--Signaling--Interlecking systems)

ALEKSANDROV, S.V.

Improving the quality and increasing the service time guaranty of products is an important task of the national economy. Der. prom. 11 no.11:1-3 N '62. (MIRA 15:12)

l. Upravleniye mebel'noy promyshlennosti Moskovskogo gorodskogo soveta narodnogo khozyaystva.
(Furniture industry—Quality control)

- 1. ALEKSANDROV, S.V.
- 2. USSR (600)
- 4. Agriculture
- 74 Raising vegetables in heated soil. Leningrad, Lenizdat. 1952

9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

BREZHNEV, D. D., ALEKSANDROV, S. V.

Tomatoes

New system of seed culture for hothouse varieties of tomatoes and cucumbers. Sad i og. No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, 1953, Unclassified.

- 1. ALEKSANDROV, S. V.
- 2. USSR (600)
- 4. Cucumbers
- 7. Using hybrid seeds for increasing cucumber yield in greenhouses. Sad i og. no.10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

ALEKSANDROV, S. V.; BCOS, G. V.

Vegetable Gardening

Effectiveness of growing vegetables in heated ground. Sad i og. No. 2, 1953.

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ALEKSANDROV, S. V.

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1. Greenhouses. 2. Vegetable gardening- Leningrad (Province)

ALEKSANDROV. Sergey Vasilyevich, kandidat sel'skokhozyaystvennykh nauk;
BELYAYEV, Anton Semenovich; VASIL'YEV, Vasiliy Luk'yanovich, kandidat
sel'skokhozyaystvennykh nauk; KAZAKOVA, Antonina Alekseyevna, kandidat
sel'skokhozyaystvennykh nauk; KAMERAZ, Abram Yakovlevich, kandidat
sel'skokhozyaystvennykh nauk; SECHKAREV, Boris Ivanovich, kandidat
sel'skokhozyaystvennykh nauk; BERZHNEV, D.D., professor, doktor
sel'skokhozyaystvennykh nauk, redaktor; PETROV, N.P., redaktor;
CHUNAYEVA, Z.V., tekhnicheskiy redaktor

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Author

: Aleksandrov, S.V.

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Title

: Producing Hybrid Cucumber and Tomato Seeds in Hothouses.

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Abstract

: This article describes the results of using hybrid cucuaber and tomate seeds in the Leningradskaya Oblast. In cucuabers the best results in yield and quick ripening were obtained by using the hybrid seeds Klinskiy 2137 x the hotehouse Leningradskiy 23. The difference in the yield from 1 m² was 6.1 kg compared with the central. The average weight of the fruit was greater. In obtaining hybrid seeds 2-3 seed fruits should be left on the plant. These fruits should be in the middle and top part of the plant. Selection of large seeds for sowing increases the yield

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